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FILE  
File Destruction

Rec'd EB  
BAND 2/20/61  
Box

EB-196 I

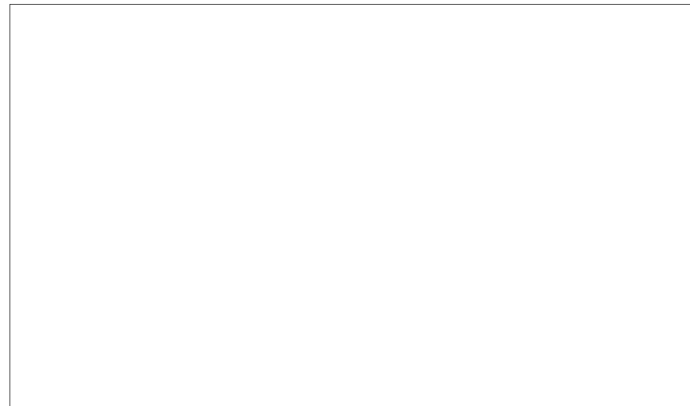
FINAL REPORT

ON THE

REDESIGNED BAND BOX

RD 45, TASK ORDER FF

17 February 1961



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Under RD 45, Task Order FF, this company proposed the re-design of a commercially available "knock-down" shipping container which had been modified for use as a paper destructor unit. Since it was desirable from the economic standpoint to test out several design points, the first prototype prepared, which was slightly below full size, contained several individual designs. This consisted of a 36" x 36" x 36" four sided metal container with a base. Three of these side panels were held together with hinges of different sizes, all using a 3 foot long removable king pin. The fourth corner was held together with a slide channel that locked the two sides together. Some of the panels were rolled over at the base and top, some were unrolled. The simple base which is shown in Drawing #361-201 had a channel running around the inside edge with a layer of Garlock asbestos inside. The base of the panels, when installed, rested within this channel. An .080" wire screen with 1/2" mesh, as used on previous units, was also provided.

As a result of the testing of this first prototype, it was apparent that the hinged corners were unsatisfactory. It was also noted that there was less buckling and leakage with the panels that were rolled at the bottom.

Based on these changes, two full sized (42" x 42" x 42") prototypes were then fabricated. The first unit was tested, and it behaved most satisfactorily. The second unit was set up in the presence of the Project Officer and was loaded as the

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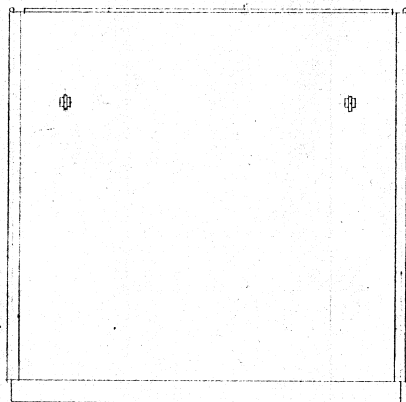
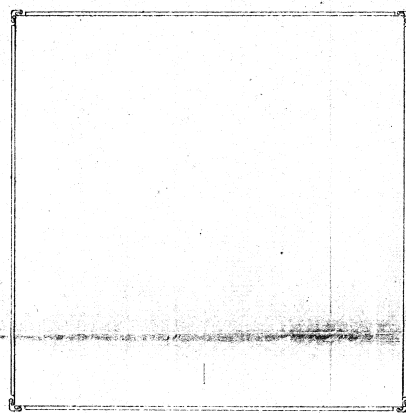
above with 500 lbs. of file papers and 700 lbs. of sodium nitrate. Rather than using a new screen wire to cover the box, one that had previously been used twice before was tried again in order to determine its probable life. Following the test, a 2" square hole was found to have been burnt through, however, no paper was lost during the actual burning. The box in all other respects behaved most satisfactorily.

Drawings to cover the fabrication of the new box were then prepared and delivered to the Project Officer. Shortly afterwards, we were requested to expend the balance of the contract by initiating the fabrication of one more prototype box, which was shipped to the customer for test following its completion.

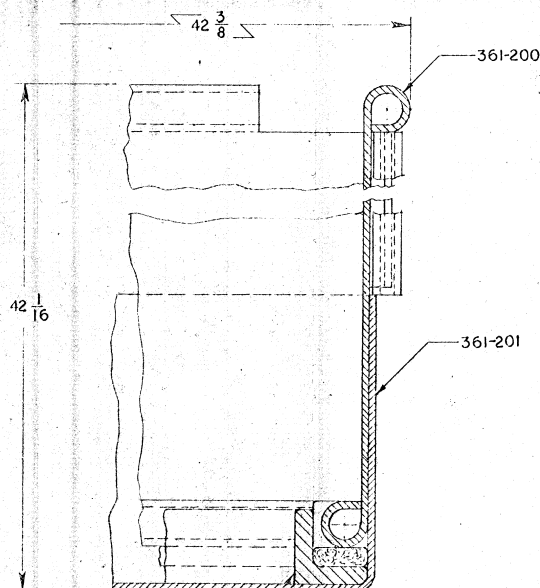
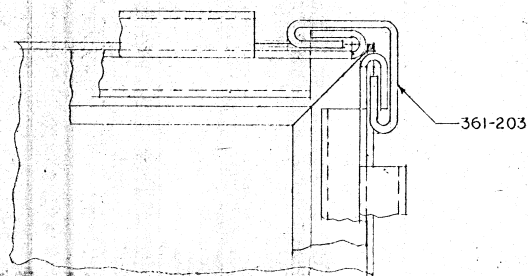
Attached to this report, is a complete set of drawings for this device.

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DATE	BY	REVISION RECORD	AUTH	CR	CK

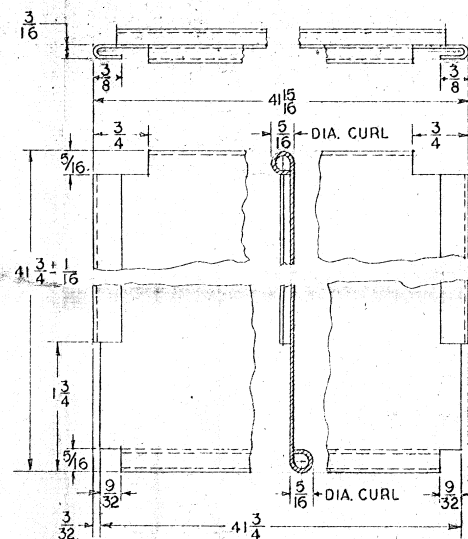


SCALE 1=8

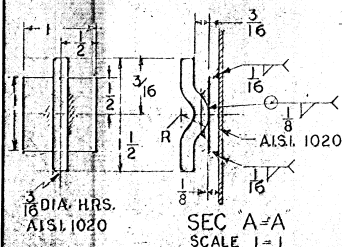


SCALE 2=1

TOLERANCES (EXCEPT AS NOTED)		SCALE	
DECIMAL	±	NOTED	DRAWN BY JTB
FRACTIONAL	±	APPROVED BY ERL	
ANGULAR	±	TITLE	
DATE		DRAWING NUMBER	
8-17-60		BOX ASSY.	
		361-100	



SCALE 1 = 1

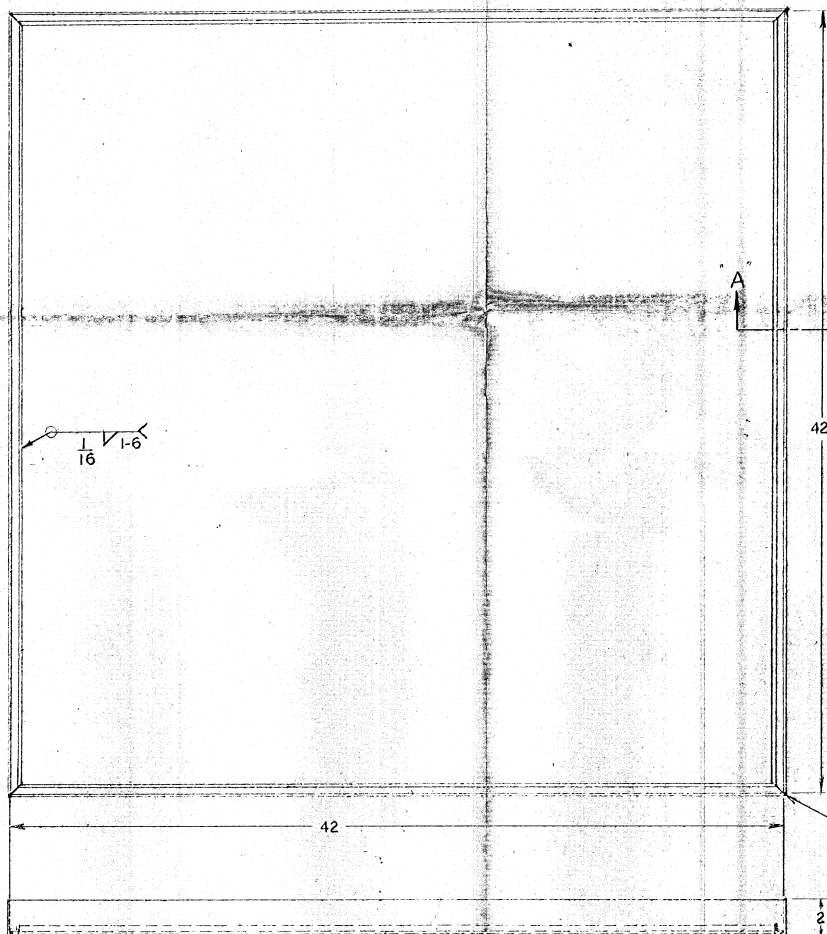


SCALE 1-4

3. REMOVE BURRS & SHARP EDGES  
2. PAINT MIL-E-10687, BLUE GRAY 331 1 COAT  
PRIME MIL-P-8586 1 COAT.  
1. WELDS PER MIL-W-21157 & MIL-E-15599.  
NOTES

TOLERANCES (EXCEPT AS NOTED)			
DECIMAL		SCALE	DRAWN BY JTB
$\pm$		NOTED	APPROVED BY ERL
FRACTIONAL	TITLE	SIDE	
$\pm$ $\frac{1}{32}$			
ANGULAR	DATE	DRAWING NUMBER	
$\pm 1^\circ$	8-8-60	361-200	

DATE	BY	REVISION	RECORD	AUTH	DR	CK



1/2 X 1/2 X 1/8" L  
H.R.S.  
A.I.S.I. 1020

GARLOC GRAPHITE IMPREGNATED  
ASBESTOS. 1/8 X 3/8 X 42, MITER  
ENDS. (TYP 4 SIDES)

18 GA (047) H.R.S.  
Q.Q-S-636

1/16" MAX. BEND R.

SEC. A-A  
SCALE 1=1

3/64"  $\sqrt{1-6}$  TYP 4 CORNERS

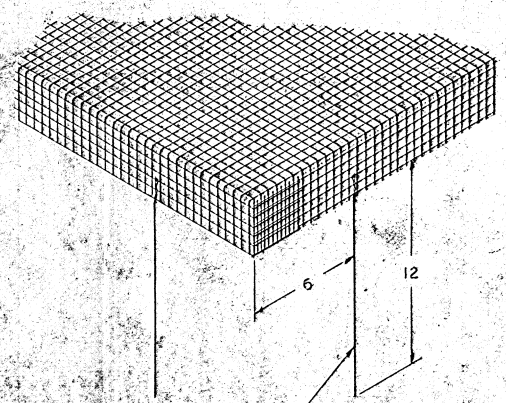
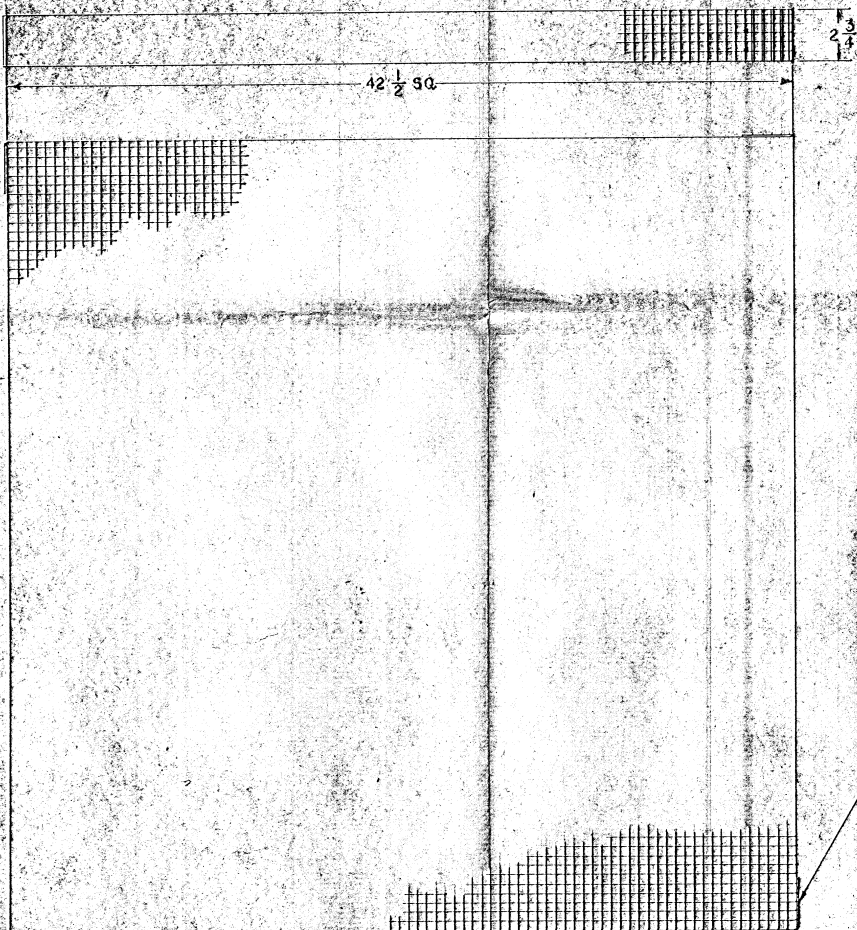
2. PAINT MIL-E-10687 BLUE GRAY 331 1 COAT  
PRIME MIL-P-8585 1 COAT.  
1. WELDS PER MIL-W-21157 & MIL-E-15599.

# NOTES

TOLERANCES (EXCEPT AS NOTED)		SCALE		DRAWN BY	
DECIMAL		NOTED		JTB	
FRACTIONAL				ERL	
ANGULAR					
± 1"		DATE	DRAWING NUMBER		
		8-17-60	361-201		

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SEIT CORNER & BEND

.063 DIA. GALVANIZED  
SOFT STEEL WIRE  
(TYP 8 PLACES)

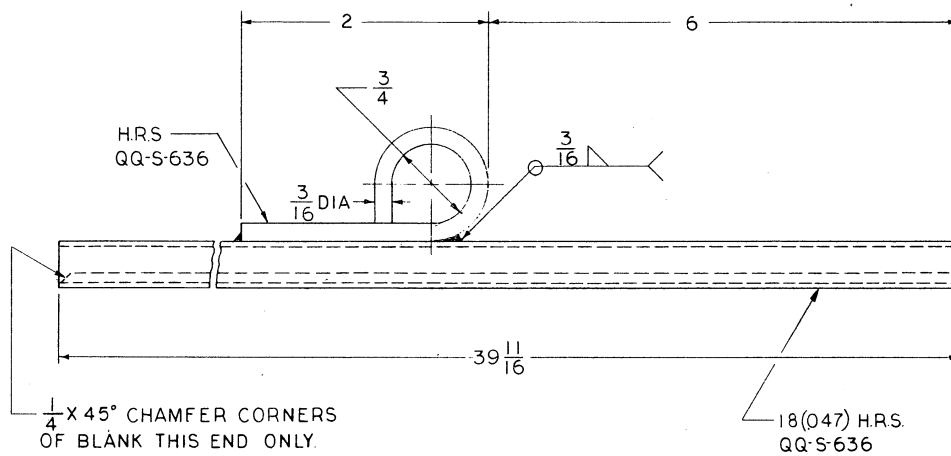
△ ORIGINAL SOURCE OF SUPPLY:  
LUDLOW-SAYLOR WIRE CLOTH CO.  
634 SO. NEWSTEAD  
ST LOUIS, MISSOURI

TOLERANCES (UNLESS OTHERWISE SPECIFIED)		MATERIAL: WIRE CLOTH .030 DIA. 1/2 MESH GALVANIZED	
DECIMAL	± 1/16	SCALE	1/4" = 1"
FRACTIONAL	± 1/8	TITLE	SCREEN
ANGULAR	± 1/2	DATE	8-18-60
DRAWING NUMBER		361-202	

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DATE	BY	REVISION RECORD	AUTH	DR	CR



3. REMOVE BURRS AND SHARP EDGES.  
 2. PRIME MIL-P-8585 (1 COAT). PAINT MIL-E-10687 \*331 BLUE GRAY (1 COAT).  
 1. WELDS PER MIL-W-21157 & MIL-E-15599.

NOTES:

TOLERANCES (EXCEPT AS NOTED)		SCALE		DRAWN BY	
DECIMAL	± —	1/1		mb	
FRACTIONAL	± 1/32			APPROVED BY	ERL
ANGULAR	± 3°	TITLE		DRAWING NUMBER	
		8-19-60		361-203	

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